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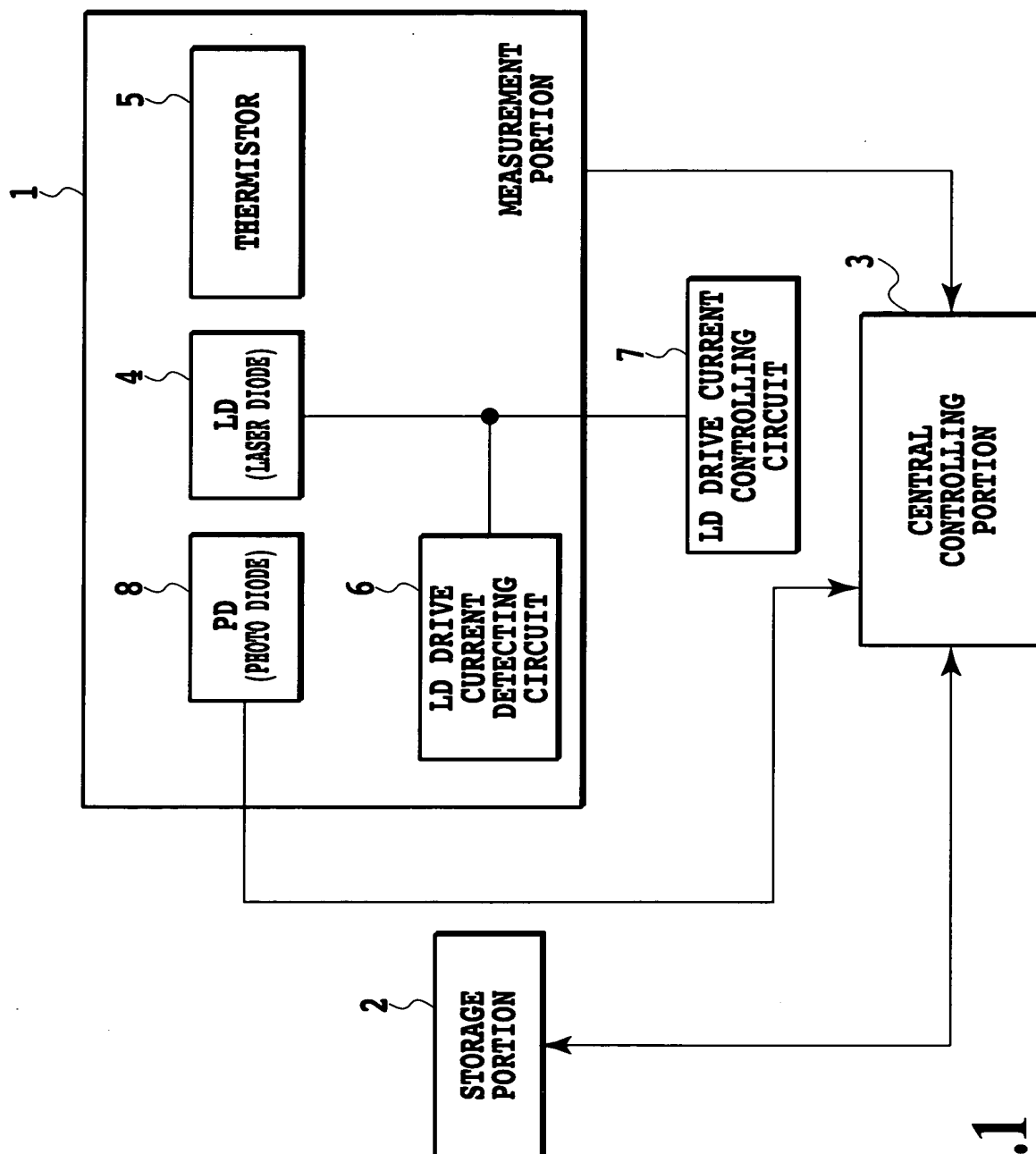


FIG.1

| TEMPERATURE(°C) | BIAS CURRENT(mA) | . | . | 50 mA | 60 mA | 70 mA | WAVE-LENGTH(nm) |
|-----------------|------------------|---|---|-----------|-----------|-----------|-----------------|
| . | . | . | . | . | . | . | . |
| 24 °C | 24 °C | . | . | 1544.94nm | 1544.97nm | 1545.00nm | 1545.0nm |
| 25 °C | 25 °C | . | . | 1545.03nm | 1545.06nm | 1545.09nm | 1545.1nm |
| 26 °C | 26 °C | . | . | 1546.12nm | 1545.15nm | 1545.18nm | 1545.2nm |
| | | | | | | | |

FIG.2B

FIG.2A

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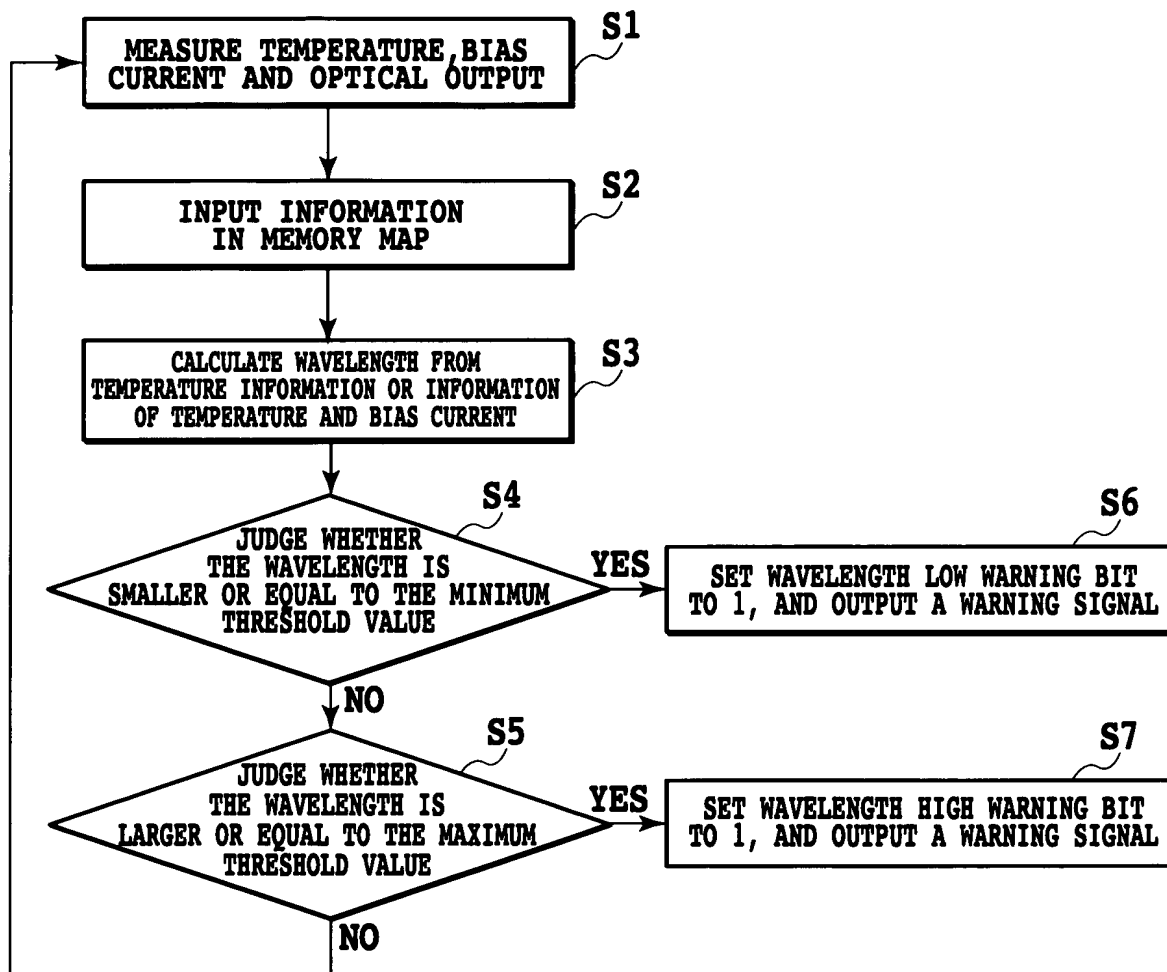
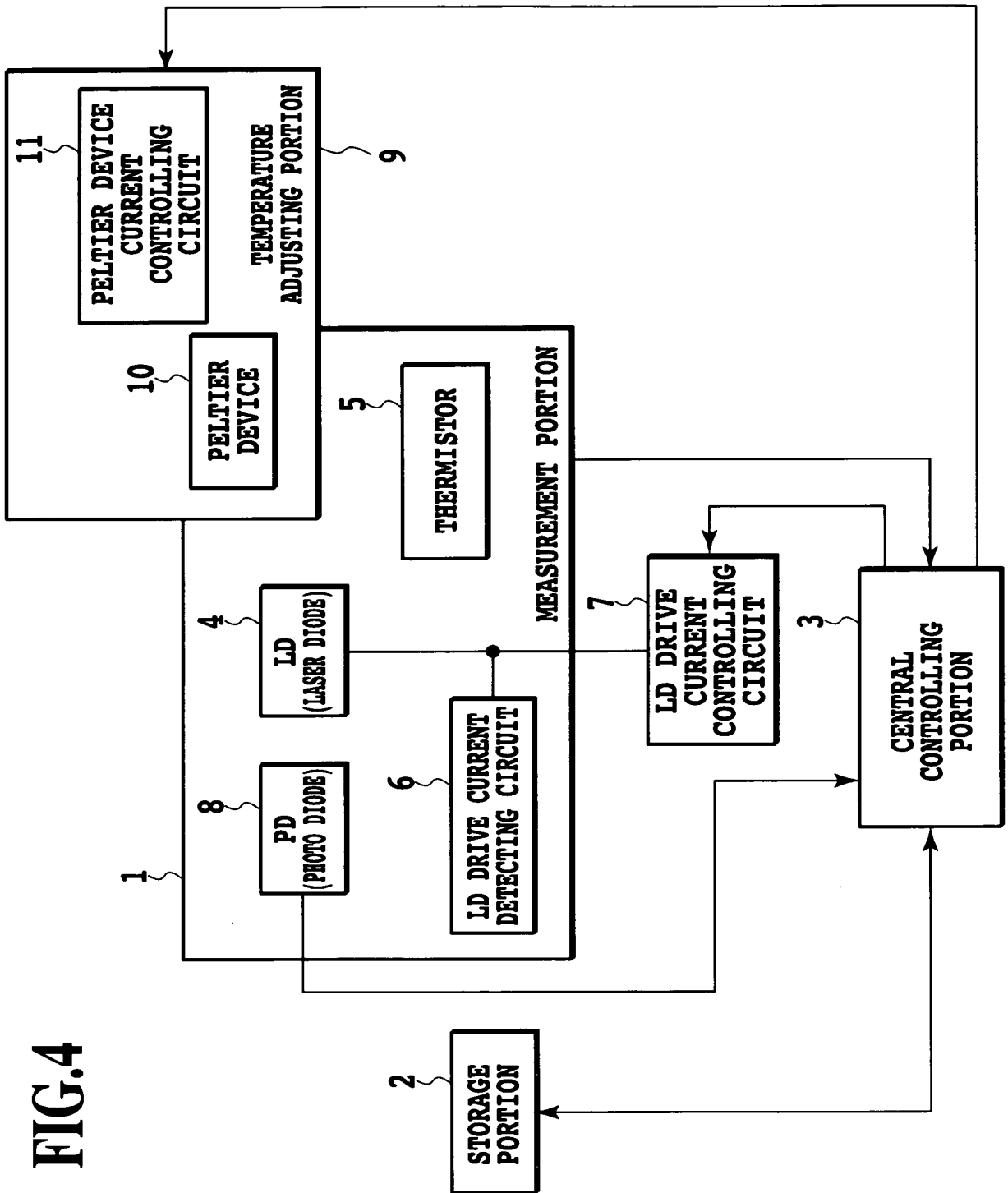
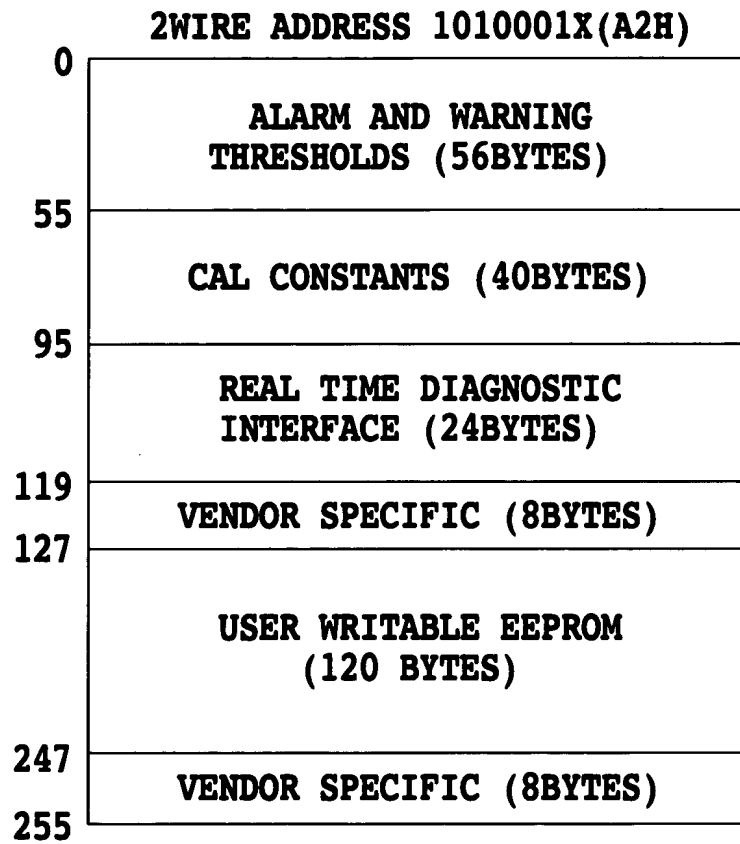


FIG.3



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**FIG.5**

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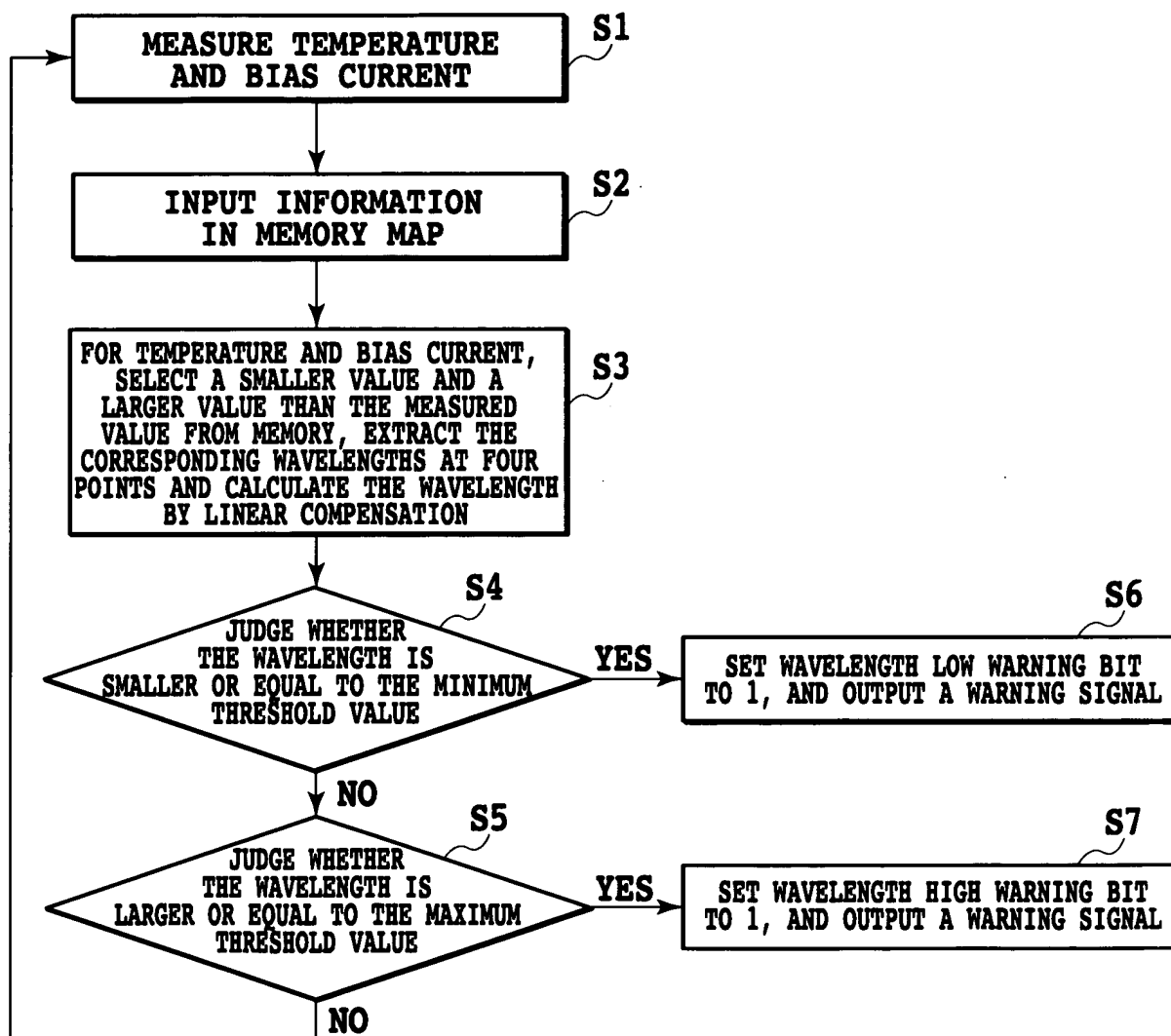


FIG.6

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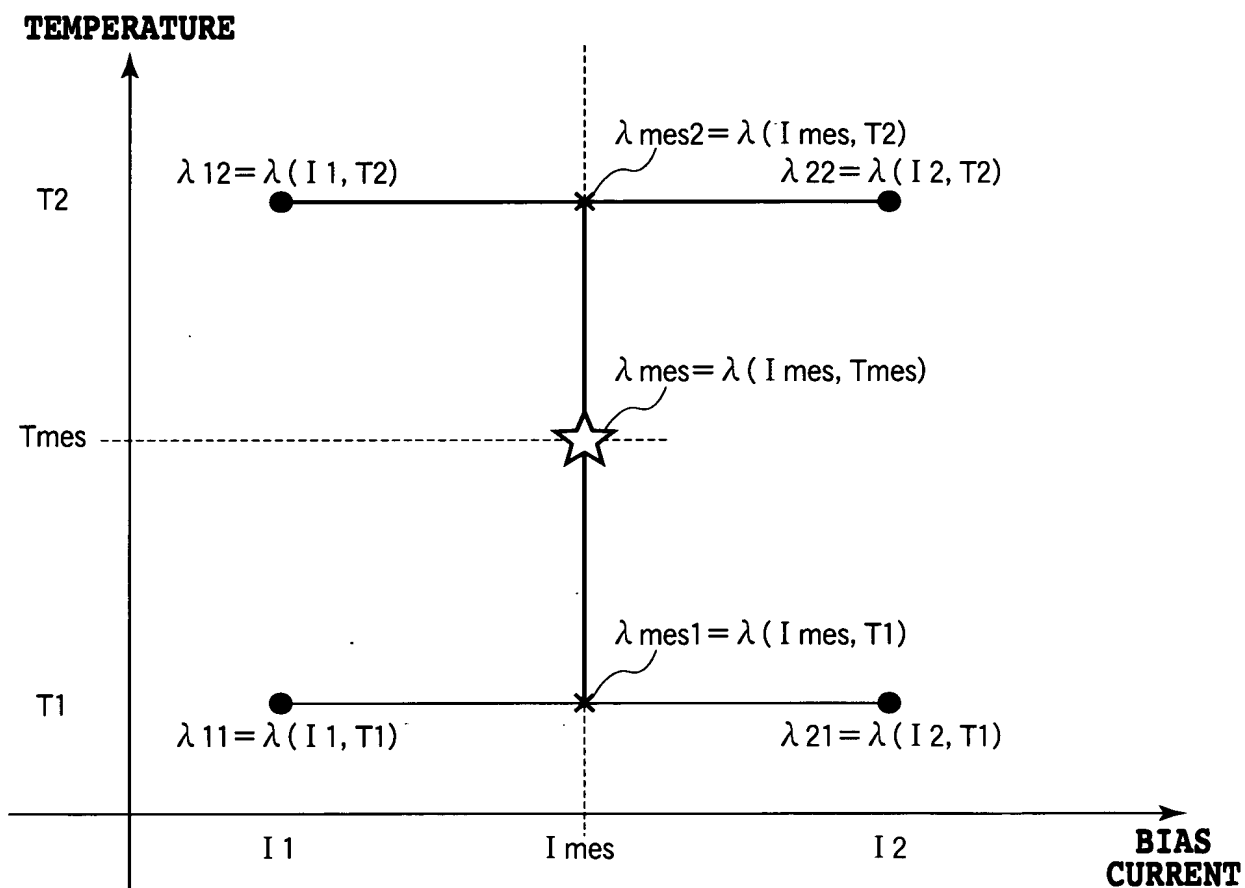


FIG.7

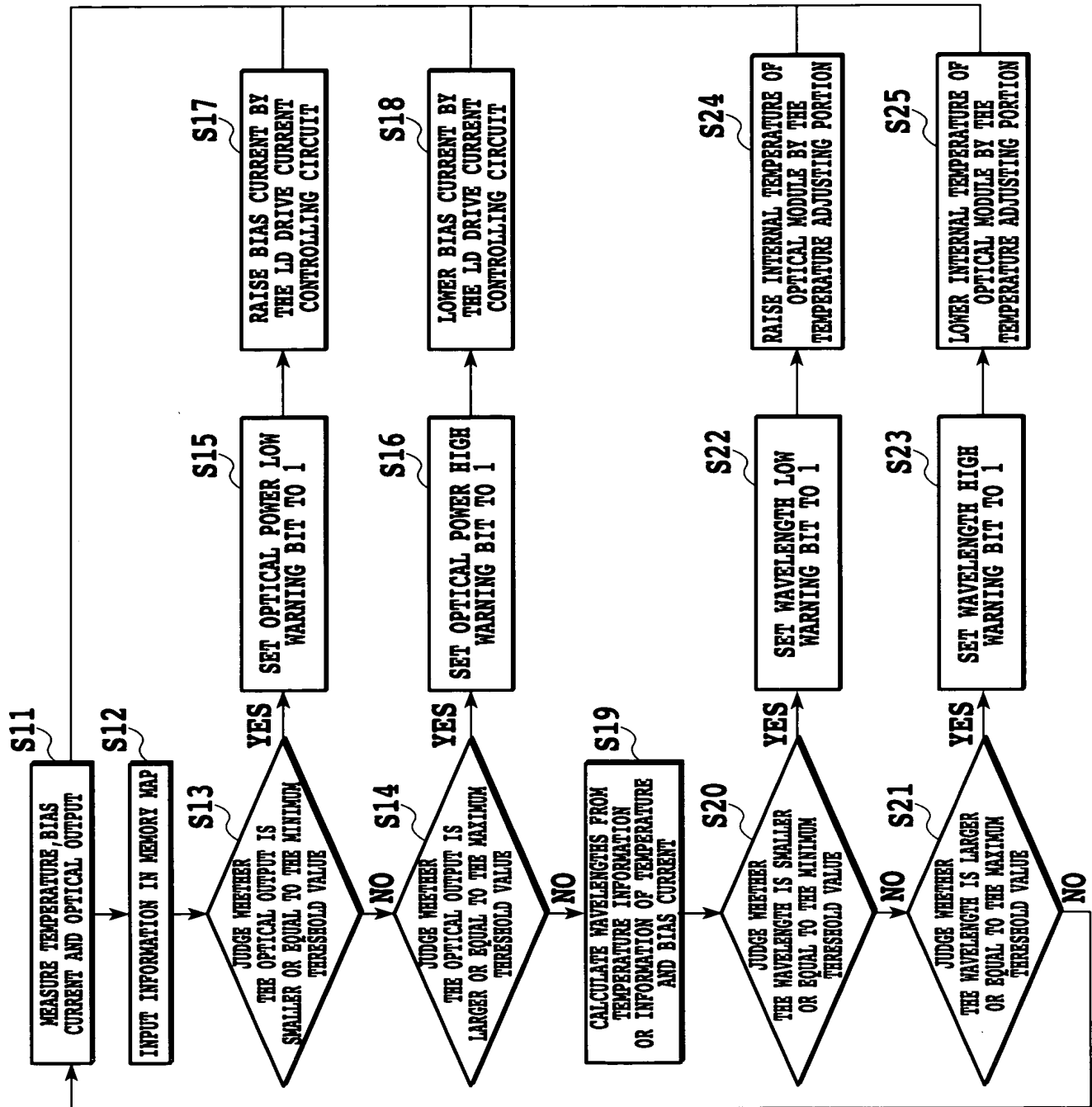


FIG. 8

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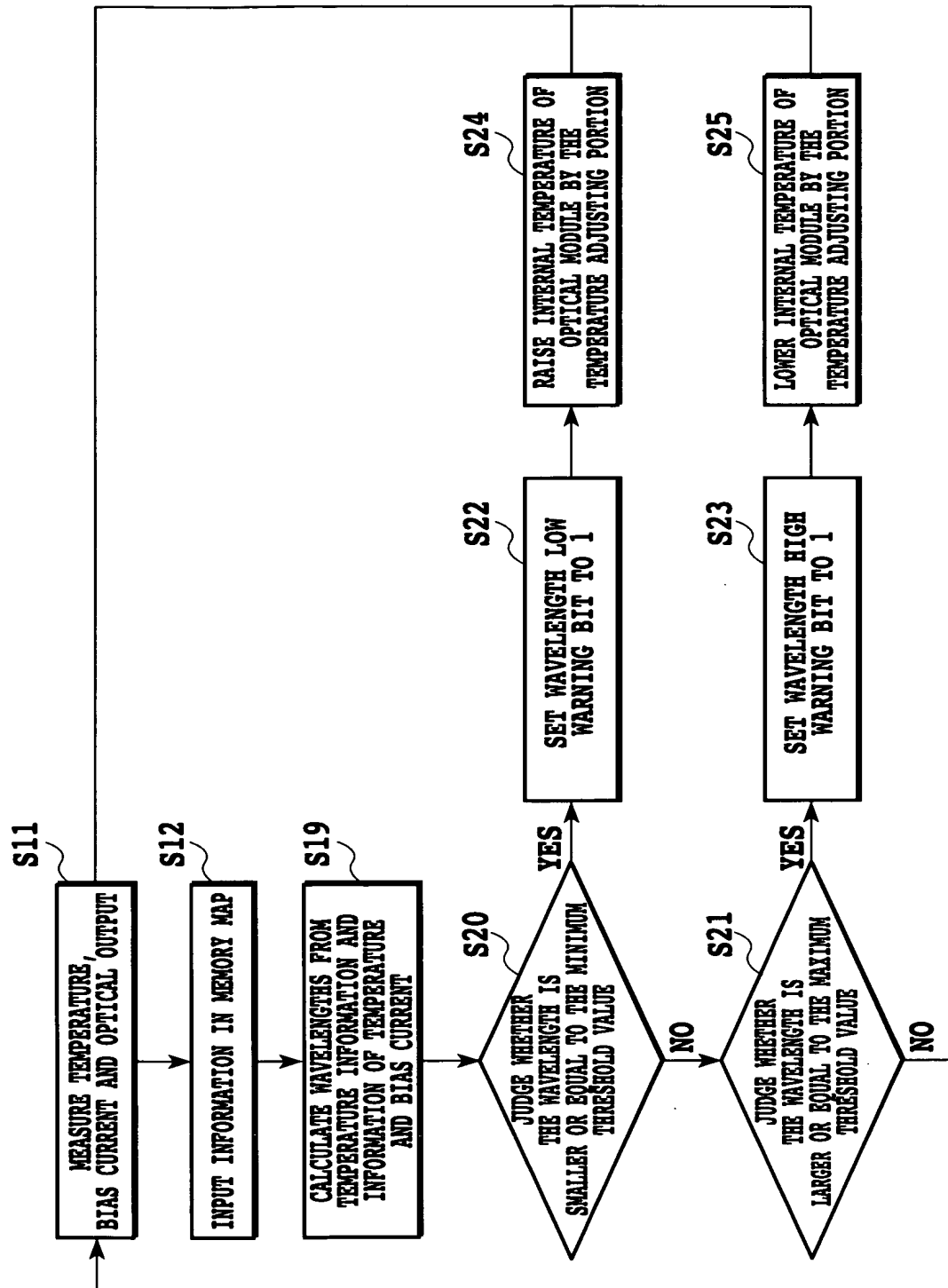


FIG.9

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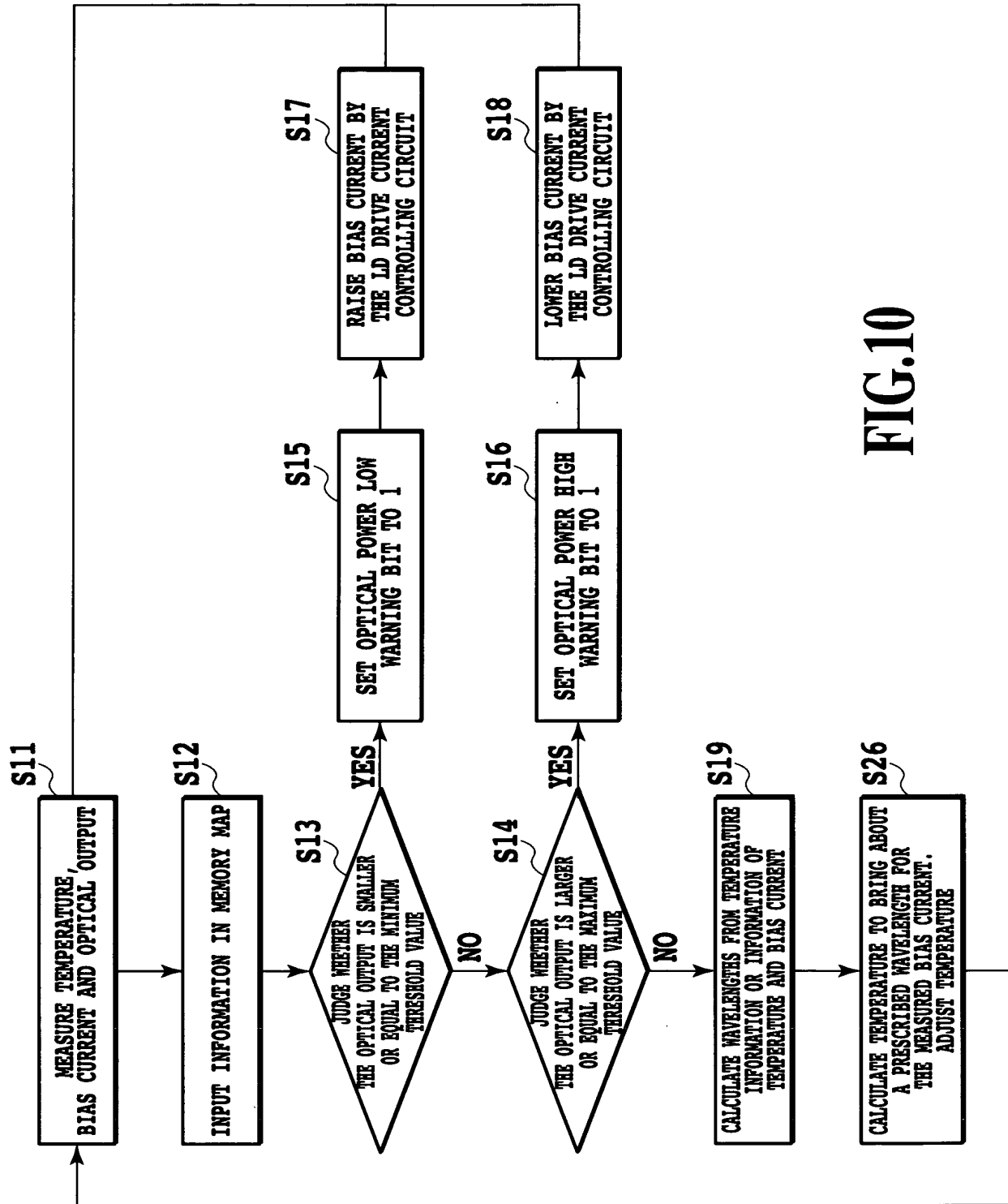


FIG.10

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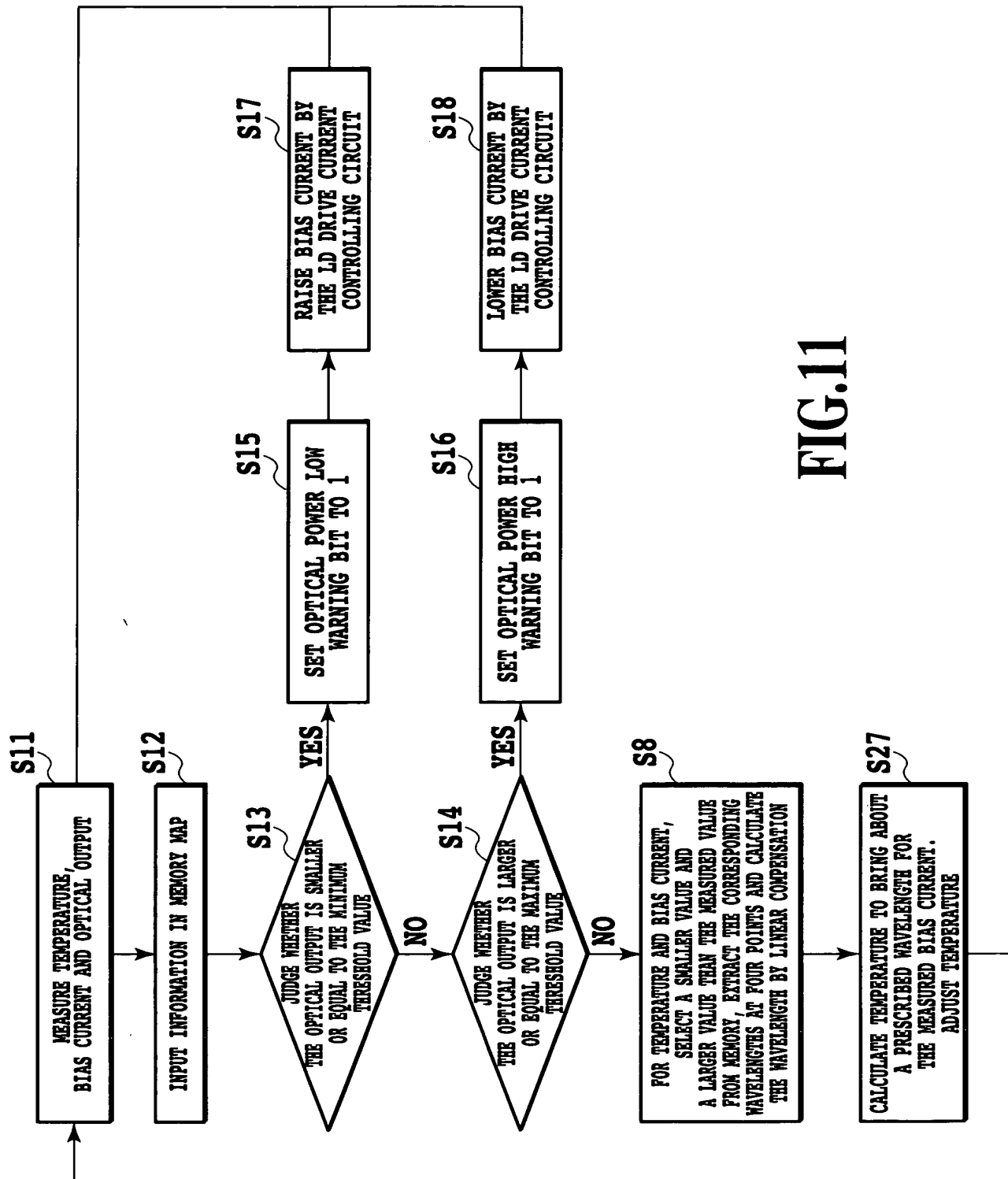


FIG.11

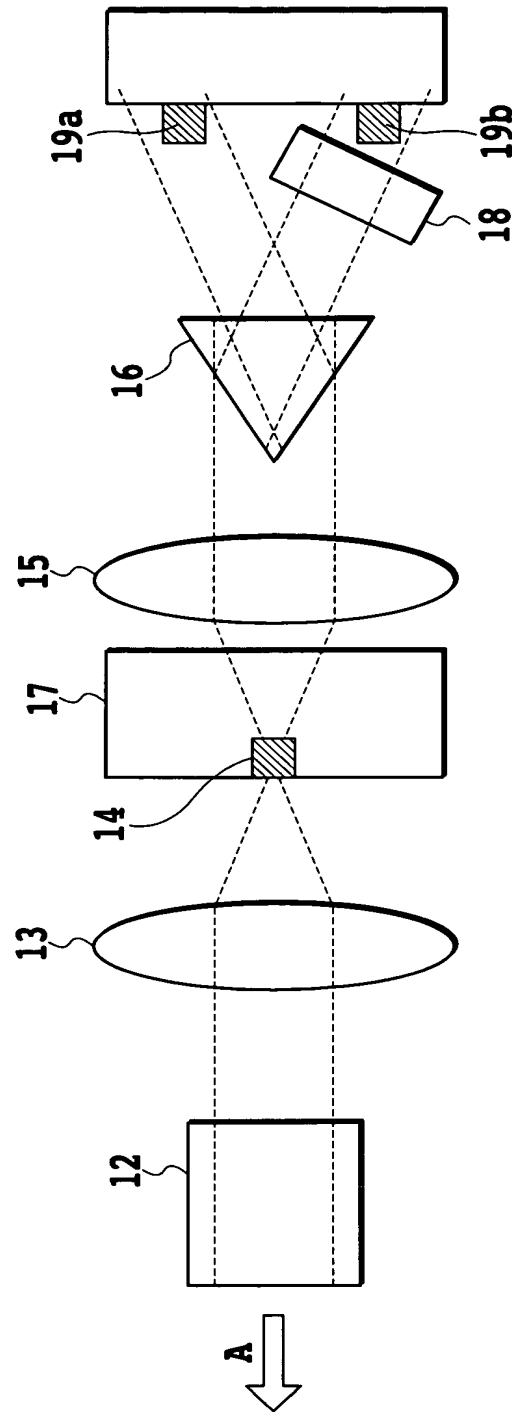


FIG.12
(PRIOR ART)